

Appl. No. 09/921,285
Amdt. dated December 1, 2005
Reply to Office Action of September 7, 2005

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (currently amended) A method for activating service in a VDSL-based
2 broadband communication network, the network comprising a plurality of loops where each loop
3 includes a source terminus and a destination terminus, wherein each of the source termini are
4 coupled to a computer system, wherein the computer system is coupled to a database having a
5 data structure to store data, the method comprising
6 receiving a service request for content from a user;
7 assigning at least one of the plurality of loops to the user;
8 storing a service record for content requested by a user in the database, the service
9 record including information for the at least one of the plurality of loops, the information
10 including loop component information specific to the user;
11 detecting a coupling of a user device to the destination terminus of the at least one
12 loop;
13 detecting an address associated with the coupled user device, the address not
14 being stored in the service record;
15 determining a path associated with the coupled user device, the path including
16 discovered loop component information;
17 matching the discovered loop component information with the loop component
18 information specific to the user that is stored in the service record in the database; and
19 providing the requested content via the determined path using the address
20 associated with the user device upon matching the discovered loop component information with
21 the loop component information specific to the user.
- 1 2. (original) The method of claim 1, further comprising providing
2 subscribed content via the at least one loop to the user device substantially upon matching the
3 path with the subscribed content.

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1 3. (original) The method of claim 1, wherein associating the user comprises
2 storing content information in the database, where the content information is data representing a
3 user's subscribed content.

1 4. (original) The method of claim 3 wherein the subscribed content is video.

1 5. (original) The method of claim 1, wherein assigning the at least one loop
2 comprises storing transport information in the database, where the transport information is data
3 representing at least one of the plurality of loops

1 6. (original) The method of claim 5, wherein the transport is configured to
2 operate in accordance with asynchronous transfer mode (ATM) based protocol.

1 7. (previously presented) The method of claim 1, wherein the loop
2 component information specific to the user includes a port identifier associated with a port or a
3 card identifier associated with a card.

1 8. (original) The method of claim 1, wherein coupling a user device further
2 comprises coupling a customer premises equipment to the destination terminus of the at least one
3 loop.

1 9. (original) The method of claim 8, wherein the customer premises
2 equipment is a residential gateway.

1 10. (original) The method of claim 1, wherein determining the path includes
2 determining a virtual path connection associated with the user device.

1 11. (previously presented) The method of claim 1, wherein the address
2 includes determining a Media Access Control Identifier (MAC ID).

1 12. (original) The method of claim 1, wherein determining the path includes
2 further determining a user device type associated with the user device.

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1 13. (previously presented) The method of claim 1, wherein matching the
2 determined loop component information comprises:
3 associating the determined loop component information with the at least one loop;
4 identifying the user assigned to the at least one loop; and
5 retrieving content subscribed by the user from the content database to provide to
6 the user via a VDSL loop.

1 14. (currently amended) A method for activating service in a VDSL-based
2 broadband communication network, the network comprising a plurality of loops where each loop
3 is coupled from a VDSL provider office to a customer location, wherein each of the plurality of
4 loops have a first loop end and a second loop end, wherein the first loop end is coupled to a
5 computer system at the VDSL provider office, wherein the computer system is coupled to a
6 content database and a network services database, the method comprising:

7 associating content subscribed by a user to the user by storing content information
8 in the database, where the content information is data representing a user's subscribed content
9 and is associated with the user;

10 assigning to the user a port and a card associated with at least one of the plurality
11 of loops and associating the port and card with the content subscribed to by the user;

12 detecting a coupling of a residential gateway to the second loop end at the
13 customer location of the at least one loop;

14 detecting an address associated with the residential gateway, the address not being
15 stored in a database;

16 determining the port and the card associated with the coupled residential gateway;

17 matching the determined port and the card with the port and card associated with
18 the content subscribed to by the user; and

19 providing subscribed content via the at least one loop to the residential gateway
20 substantially upon matching the determined port and the card with the port and card associated
21 with the content subscribed to by the user.

1 15. (currently amended) A method for activating service in a video and data
2 broadband communication network, the method comprising

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3 receiving a service request for content from a user;
4 assigning a network transport to the user;
5 storing a service record for content requested by a user in the database, the service
6 record including information for the provisioned network transport, the information including
7 assigned network component information specific to the user;
8 detecting a coupling of a user device to the network transport;
9 detecting an address associated with the coupled user device, the address not
10 being stored in a database;
11 determining a path associated with the coupled user device, the path including
12 discovered network component information;
13 matching the discovered network component information with the assigned
14 network component information specific to the user that is stored in the service record in the
15 database; and
16 providing the requested content via the determined path associated with the user
17 device upon matching the discovered network component information with the network
18 component information specific to the user, wherein the assigning of the network transport is
19 performed before detecting the coupling of the user device and the providing of the requested
20 content is performed after detecting the coupling of the user device.

1 16. (currently amended) The method of claim 15, further comprising:
2 ~~detecting an address associated with the coupled user device; and~~
3 using the address to provide the requested content.

1 17. (previously presented) The method of claim 15, further comprising
2 storing the address with the service record.

1 18. (new) The method of claim 1, further comprising programming a second
2 address into the memory of the user device.

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- 1 19. (new) The method of claim 1, further comprising storing the address with
2 the service record.